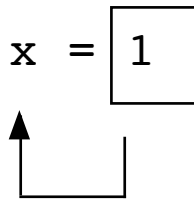


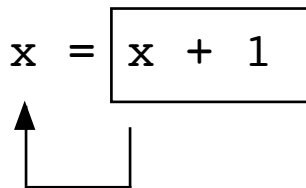
Assignment



STEP 1:
the expression is **evaluated**:
it's simply the integer 1

STEP 2:
the object resulting from the expression
gets recorded using the given name

First time the name is used?
A new entry is created for the
given name and linked to the
new object



STEP 1:
the expression is **evaluated**:
x gets replaced by its value (1)
the addition is calculated ($1 + 1 = 2$)
the expression has a final value 2

STEP 2:
the object resulting from the expression
gets recorded using the given name

Name already exists?
The entry is updated to
link to the new object

```
y = x * 3
y = y * x
x += 1
z = "Hello"
z += "There"
```

Namespace

name	id
x	4
y	3
z	6

Memory

id	type	value
0	int	1
1	int	2
2	int	6
3	int	12
4	int	3
5	str	"Hello"
6	str	"HelloThere"
7		

